

**COMPOSITION AND METHOD FOR INHIBITING PLATELET AGGREGATION**

**ABSTRACT**

The present invention provides novel compounds of dinucleotide polyphosphates and  
5 the method of preventing or treating diseases or conditions associated with platelet  
aggregation. The method comprises administering systemically to a patient a pharmaceutical  
comprising a purinergic P<sub>2</sub><sub>T</sub> receptor antagonist, in an amount effective to elevate its  
extracellular concentration to bind to P<sub>2</sub><sub>T</sub> receptors and inhibit P<sub>2</sub><sub>T</sub> receptor-mediated platelet  
aggregation. Methods of systemic administration include injection by intravenous,  
10 intramuscular, intrasternal and intravitreal routes, infusion, transdermal administration, oral  
administration, rectal administration and intra-operative instillation.

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